www.FirstRanker.com

Code No: RT32011

R13

SET - 1

III B. Tech II Semester Supplementary Examinations, November - 2018 ENVIRONMENTAL ENGINEERING – I

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

- 2. Answering the question in **Part-A** is compulsory
- 3. Answer any THREE Questions from Part-B

PART -A

1	a) b)	Discuss the factors affecting water demand. What are the sources of water?	[4M] [3M]
	c)	Write a note on common impurities found in water.	[4M]
	d)	What do you understand by treatment of water? Why is it necessary?	[3M]
	e) f)	Write short note on Softening of Water What are requirement of distribution of water?	[4M] [4M]
		<u>PART -B</u>	
2	a)	Describe the importance and necessity of protected water supply system.	[8M]
	b)	Explain in detail about the population forecasting.	[8M]
3	a)	Differentiate between the gravity and pressure conduits?	[3M]
	b)	What are the factors governing the selection of Intake structures	[8M]
	c)	Explain the balancing storage capacity of reservoir by mass curve analysis.	[5M]
4	a)	Explain in brief various important tests conducted for chemical examination of water.	[8M]
	b)	Describe the WHO guidelines for drinking water.	[8M]
5	a)	Describe various types of coagulation commonly used in water treatment.	[8M]
	b)	Describe with help of a neat sketch slow sand filter. Explain its working.	[8M]
6	a)	Discuss the chlorination and Disinfection methods	[8M]
	b)	Distinguish between fluoridation and defluoridation.	[8M]
7	a)	Discuss about Hardy Cross method in detail	[8M]
	b)	Discuss the sluice valves, scour valves and check valves.	[8M]
